

CGCGTCCGGCAGATT	CACGTCGTT	CCAGCCAAGTGGACCTGATCGATGGCCCTCCTGAATTATCACCGATATTGAT	16																	
TTATTAGCGATGCC	CCCCCTGGTT	GGTACGGCACACACACCGTGCACACAGGCTCTGGCTCGCTTCCCTCGTT	48																	
TCCAGCTCCTGGCGA	ATCCCCATCTGTT	TAACCTCCGAGGGAGCAGGGACAGAGGAAAGAACAAAGCCACAGACGCAACTTGAGACTCCGCATCCCCAT	108																	
AGTGAAGAGGGAC	GGGAGAAG	GGGAGAAGGGAAAGAACAAAGCCACAGACGCAACTTGAGACTCCGCATCCCCAT	36																	
M	G	P	P	S	L	V	L	C	L	S	A	T	V	F	Q	16				
S	L	L	G	G	S	S	A	F	L	S	H	R	L	K	G	R	F	Q	48	
R	D	R	R	N	I	R	P	N	I	I	I	L	V	L	T	D	D	Q	56	
GAC	GAC	CGC	GGT	GGT	GGA	AGC	ATC	CGC	CCC	AAC	ATC	ATC	CTG	GTG	CTG	ACG	GAC	CAG	GAT	168
E	L	G	S	M	Q	V	M	N	K	T	R	R	I	M	E	Q	G	G	T	228
GAG	CTG	GGT	TCC	ATG	CAG	GTG	ATG	AAC	AAG	ACC	CGG	CGC	ATC	ATG	GAG	CAG	GGG	GGG	ACG	228
H	F	I	N	A	F	V	T	T	P	M	C	C	P	S	R	S	S	I	L	96
CAC	TTC	ATC	AAC	GCC	TTC	GTG	ACC	ACA	CCC	ATG	TGC	TGC	CCC	TCA	CGC	TCC	TCC	ATC	CTC	288
T	G	K	Y	V	H	N	H	N	T	Y	T	N	N	E	N	C	S	S	P	116
ACC	GGC	AAG	TAC	GTC	CAC	AAC	CAC	ACC	ACC	TAC	ACC	AAC	AAT	GAG	AAC	TGC	TCC	TCC	CCC	348
S	W	Q	A	Q	H	E	S	R	T	F	A	V	Y	L	N	S	T	G	Y	136
TCC	TGG	CAG	GCA	CAG	CAC	GAG	AGC	CGC	ACC	ACC	TTT	GCC	GTG	TAC	CTC	AAT	AGC	ACT	GGC	408

Fig. 1A

R	T	A	F	F	G	K	Y	L	N	E	Y	N	G	S	Y	V	P	P	G	156
CGG	ACA	GCT	TTC	TTC	GGG	AAG	TAT	CTT	AAT	GAA	TAC	AAC	GGC	TCC	TAC	GTG	CCA	CCC	GGC	468
W	K	E	W	V	G	L	L	K	N	S	R	F	Y	N	Y	T	L	C	R	176
TGG	AAG	GAG	TGG	GTC	GGG	CTC	CTT	AAA	AAC	TCC	CGC	TTT	TAT	AAC	TAC	ACG	CTG	TGT	GGG	528
N	G	V	K	E	K	H	G	S	D	Y	S	K	D	Y	L	T	D	L	I	196
AAC	GGG	GTG	AAA	GAG	AAG	CAC	GAC	TCC	GAC	TAC	TCC	AAG	GAT	TAC	CTC	ACA	GAC	CTC	ATC	588
T	N	D	S	V	S	F	F	R	T	S	K	K	M	Y	P	H	R	P	V	216
ACC	AAT	GAC	AGC	GTG	AGC	TTC	TTC	CGC	ACG	TCC	AAG	AAG	ATG	TAC	CCG	CAC	AGG	CCA	GTC	648
L	M	V	I	S	H	A	A	P	H	G	P	E	D	S	A	P	Q	Y	S	236
CTC	ATG	GTC	ATC	AGC	CAT	GCA	GCC	CCC	CAC	GGC	CCT	GAG	GAT	TCA	GCC	CCA	TAT	TCA	708	
R	L	F	P	N	A	S	Q	H	I	T	P	S	Y	N	Y	A	P	N	P	256
CGC	CTC	TTC	CCA	AAC	GCA	TCT	CAG	CAC	ATC	ACG	CCG	AGC	TAC	AAC	TAC	GCG	CCC	AAC	CCG	768
D	K	H	W	I	M	R	Y	T	G	P	M	K	P	I	H	M	E	F	T	276
GAC	AAA	CAC	TGG	ATC	ATG	CGC	TAC	ACG	GGG	CCC	ATG	AAG	CCC	ATC	CAC	ATG	GAA	TTC	ACC	828
N	M	L	Q	R	K	R	L	Q	T	L	M	S	V	D	D	S	M	E	T	296
AAC	ATG	CTC	CAG	CGG	AAG	CAC	TGG	CAG	ACC	CTC	ATG	TCG	GTG	GAC	GAC	TCC	ATG	GAG	ACG	888
I	Y	N	M	L	V	E	T	G	E	L	D	N	T	Y	I	V	Y	T	A	316
ATT	TAC	AAC	ATG	CTG	GTT	GAG	ACG	GGC	GAG	CTG	GAC	AAC	ACG	TAC	ATC	GTA	TAC	ACC	GCC	948

**Fig. 1B**

D	H	G	Y	H	I	G	Q	F	G	L	V	K	G	K	S	M	P	Y	E	336
GAC	CAC	GGT	TAC	CAC	ATC	GGC	CAG	TTT	GGC	CTG	GTG	AAA	GGG	AAA	TCC	ATG	CCA	TAT	GAG	1008
F	D	I	R	V	P	F	Y	V	R	G	P	N	V	E	A	G	C	L	N	356
TTT	GAC	ATC	AGG	GTC	CCG	TTC	TAC	GTG	AGG	GGC	CCC	AAC	GTG	GAA	GCC	GGC	TGT	CTG	AAT	1068
P	H	I	V	L	N	I	D	L	A	P	T	I	L	D	I	A	G	L	D	376
CCC	CAC	ATC	GTC	CTC	AAC	ATT	GAC	CTG	GCC	CCC	ACC	ATC	CTG	GAC	ATT	GCA	GGC	CTG	GAC	1128
I	P	A	D	M	D	G	K	S	I	L	K	L	D	T	E	R	P	V	396	
ATA	CCT	GCG	GAT	ATG	GAC	GGG	AAA	TCC	ATC	CTC	AAG	CTG	CTG	GAC	ACG	GAG	CGG	CCG	GTG	1188
N	R	F	H	L	K	K	M	R	V	W	R	D	S	F	L	V	E	R	416	
AAT	CGG	TTT	CAC	TTG	AAA	AAG	AAG	ATG	AGG	GTC	TGG	CGG	GAC	TCC	TTC	TTG	GTG	GAG	AGA	1248
G	K	L	L	H	K	R	D	N	D	K	V	D	A	Q	E	E	N	F	L	436
GGC	AAG	CTG	CTA	CAC	AAG	AGA	GAC	AAT	GAC	AAG	GTG	GAC	GCC	CAG	GAG	AAC	TTT	CTG	1308	
P	K	Y	Q	R	V	K	D	L	C	Q	R	A	E	Y	Q	T	A	C	E	456
CCC	AAG	TAC	CAG	CGT	GTG	AAG	GAC	CTG	TGT	CAG	CGT	GCT	GAG	TAC	CAG	ACG	GCG	TGT	GAG	1368
Q	L	G	Q	K	W	Q	C	V	E	D	A	T	G	K	L	K	L	H	K	476
CAG	CTG	GGA	CAG	AAG	TGG	CAG	TGT	GTG	GAG	GAC	GCC	ACG	GGG	AAG	CTG	AAG	CTG	CAT	AAG	1428
C	K	G	P	M	R	L	G	G	S	R	A	L	S	N	L	V	P	K	Y	496
TGC	AAG	GGC	CCC	ATG	CGG	CTG	GGC	GGC	AGC	AGA	GCC	CTC	TCC	AAC	CTC	GTG	CCC	AAG	TAC	1488

Fig. 1C

Y	G	Q	G	S	E	A	C	T	C	D	S	G	D	Y	K	L	S	L	A	516	
TAC	GGG	CAG	GGC	AGC	GAG	GCC	TGC	ACC	TGT	GAC	AGC	GGG	GAC	TAC	AAG	CTC	AGC	CTG	GCC	1548	
G	R	K	K	L	F	K	K	Y	K	A	S	Y	V	R	S	R	S	536			
CGG	CGC	CGG	AAA	CTC	TTC	AAG	AAG	TAC	AAG	GGC	AGC	TAT	GTC	CGC	AGT	CGC	TCC	1608			
I	R	S	V	A	I	E	V	D	G	R	V	Y	H	V	G	L	G	D	A	556	
ATC	CGC	TCA	GTG	GCC	ATC	GAG	GTG	GAC	GGC	AGG	GTG	TAC	CAC	GTA	GGC	CTG	GGT	GAT	GCC	1668	
A	Q	P	R	N	L	T	K	R	H	W	P	G	A	P	E	D	Q	D	D	576	
GCC	CAG	CCC	CGA	AAC	CTC	ACC	AAG	CGG	CAC	TGG	CCA	GGG	GCC	CCT	GAG	GAC	CAA	GAT	GAC	1728	
K	D	G	G	D	F	S	G	T	G	G	L	P	D	Y	S	A	A	N	P	596	
AAG	GAT	GGT	GGG	GAC	TTC	AGT	GGC	ACT	GGA	GGC	CTT	CCC	GAC	TAC	TCA	GCC	GCC	AAC	CCC	1788	
I	K	V	T	H	R	C	Y	I	L	E	N	D	T	V	Q	C	D	L	D	616	
ATT	AAA	GTG	ACA	CAT	CGG	TGC	AGC	TAC	ATC	CTA	GAG	AAC	GAC	ACA	GTC	CAG	TGT	GAC	CTG	GAC	1848
L	Y	K	S	L	Q	A	W	K	D	H	K	L	H	I	D	H	E	I	E	636	
CTG	TAC	AAG	TCC	CTG	CAG	GCC	TGG	AAA	GAC	CAC	AAG	CTG	CAC	ATC	GAC	CAC	GAG	ATT	GAA	1908	
T	L	Q	N	K	I	K	N	L	R	E	V	R	G	H	L	K	K	R	656		
ACC	CTG	CAG	AAC	AAA	ATT	AAG	AAC	CTG	AGG	GAA	GTC	CGA	GGT	CAC	CTG	AAG	AAA	AAG	CGG	1968	
P	E	E	C	D	C	H	K	I	S	Y	H	T	Q	H	K	G	R	L	K	676	
CCA	GAA	GAA	TGT	GAC	TGT	CAC	AAA	ATC	AGC	TAC	CAC	ACC	CAG	CAC	AAA	GGC	CGC	CTC	AAG	2028	

Fig. 1D

H	R	G	S	S	L	H	P	F	R	K	G	L	Q	E	K	D	K	V	W	W	696
CAC	AGA	GGC	TCC	AGT	CTG	CAT	CCT	TTC	AGG	AAG	GGC	CTG	CAA	GAG	AAG	GAC	AAG	GTG	TGG	TGG	2088
L	L	R	E	Q	K	R	K	K	L	R	K	L	K	R	L	Q	N	Q	N	716	
CTG	TTG	CGG	GAG	CAG	AAG	CGC	AAG	AAG	AAA	CTG	CGC	AAG	CTG	CTG	AAG	CGC	CTG	CAG	CAG	AAC	2148
N	D	T	C	S	M	P	G	L	T	C	F	T	H	D	N	Q	H	W	Q	736	
AAC	GAC	ACG	TGC	AGC	ATG	CCA	GGC	CTC	ACG	TGC	TTC	ACC	CAC	GAC	AAC	CAG	CAC	TGG	CAG	2208	
T	A	P	E	W	T	L	G	P	F	C	A	C	T	S	A	N	N	N	T	756	
ACG	GCG	CCT	TTC	TGG	ACA	CTG	GGG	CCT	TTC	TGT	GCC	TGC	ACC	AGC	GCC	AAC	AAC	AAT	AAC	ACG	2268
Y	W	C	M	R	T	I	N	E	T	H	N	F	L	F	C	E	F	A	T	776	
TAC	TGG	TGC	ATG	AGG	ACC	ATC	ATG	GAG	ACT	CAC	AAT	TTC	CTC	TTC	TGT	GAA	TTT	GCA	ACT	2328	
G	F	L	E	Y	F	D	L	N	T	D	P	Y	Q	L	M	N	A	V	N	796	
GGC	TTC	CTA	GAG	TAC	TTT	GAT	CTC	AAC	ACA	GAC	CCC	TAC	CAG	CTG	ATG	AAT	GCA	GTG	AAC	2388	
T	L	D	R	D	V	L	N	Q	L	H	V	Q	L	M	E	L	R	S	C	816	
ACA	CTG	GAC	AGG	GAT	GTC	CTC	AAC	CAG	CTA	CAC	GTA	CAG	CTC	ATG	GAG	CTG	AGG	AGC	TGC	2448	
K	G	Y	K	Q	C	N	P	R	T	R	N	M	D	L	G	L	K	D	G	836	
AAG	GGT	TAC	AAG	CAG	TGT	AAC	CCC	CGG	ACT	CGA	AAC	ATG	GAC	CTG	GGA	CTT	AAA	GAT	GGA	2508	
G	S	Y	E	Q	Y	R	Q	F	Q	R	R	K	W	P	E	M	K	R	P	856	
GGA	AGC	TAT	GAG	CMA	TAC	AGG	CAG	TTT	CAG	CGT	CGA	AAG	TGG	CCA	GAA	ATG	AAG	AGA	CCT	2568	

Fig. 1E

870  
2613

S S K S L G Q L W E G W E G \*  
TCT TCC AAA TCA CTG GGA CAA CTG TGG GAA GGC TGG GAA GGT TAA

GAACAAACAGAGGGTGGACCTCCAAAAACATAGAGGCATCACCTGACTGCACAGGAATGAAAACCATGTGGGTGATT  
CCAGCAGACCTGTGCTATTGGCCAGGAGCCTGAGAAAGCAAGCAGGAGCTGACTCTCAGTCACCTCAGCAGATTCTGGAGGA  
TAACCAGCAGGGAGGAGATAACTTCAGGAAGTCCATTGCTTTGCTTGGATTATACCTCACCCAGAAGCTCACAAAGGAAAACGGAGAGCGAG  
ACAAAATGCATTTTCGTATCAAAGTCAACCACATAACCCCTCCCCAGAAGCTCACAAAGGAAAACGGAGAGCGAG  
CGAGAGAGATTCCCTGGAAATTCTCCCAAGGGCGAAAGTCAATTGGAAAGTCAATTGGAAAGTCAACGAGGCAACGTGAGAGGGCTGAA  
TTCTAAATCCTTATTCTTGGTCACAAAGAAGGAACTAAGAAGCAGGACATTAACCTAGCACTATAACCCCTGGTTGCC  
AACAGTGCAGAGACGTTGACAATGAGTCAGTCAGTGGAAAGAGATGACATTACCTAGCACTTACCTAGGCCTT  
TCTGAAGAAAAGTGCCTT

Fig. 1F

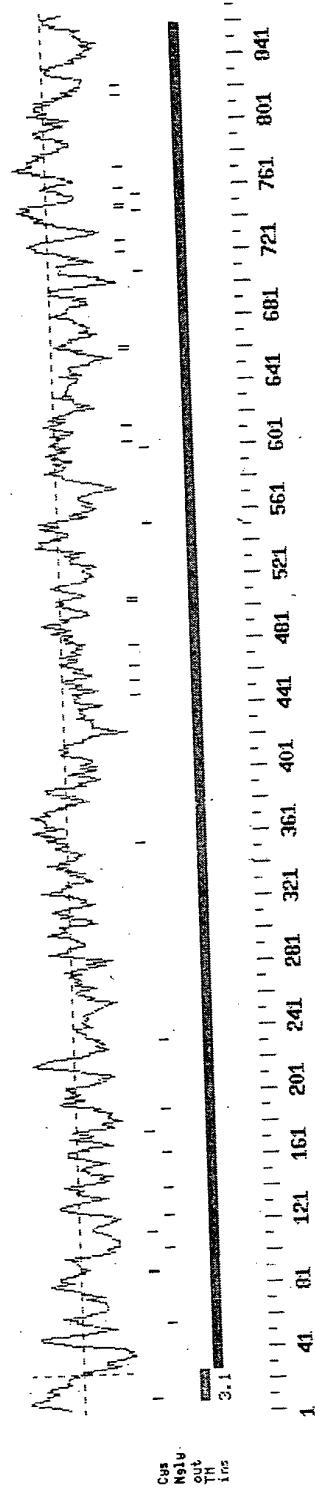


Fig. 2

22437 -----  
1247 GAGCGAGAGTGTGAGTGTGCGTCTGTGTCCCCGGAGGGTGGCGCTCGGC  
10 20 30 40 50 60

22437 -----  
1247 GCCGGAGCGGCCAGCCGAGTCCGGAGGCATCGGGAGGGTCGAGAGCCGGACCCC  
70 80 90 100 110 120

22437 -----  
1247 AGCTCTGCCTTCACTGCCTCGGGAGCTGGACTTCGGGGCCGGGGCGTGC  
130 140 150 160 170 180

22437 -----  
1247 CCGGGGACAGGCAGGGCGGGTCCGGCCGGCGTCCCCCAGGGCCGGAGATCTGGAGT  
190 200 210 220 230 240

Fig. 3A

22437	GAAGAGGGACAAGGGAAAAGAAACAAAGCCACAGACGGCAGACTTGGAGACTCCGCATCCCA	300	300
1247	250	270	280
22437	ATGGGGCCCCCGAGCCTCGTGCCTGCTTG	30	30
1247	AAAGAACCGACAGATCAGCAA	360	360
22437	AAAGAACCGACAGATCAGCAA	350	350
1247	310	330	340
22437	AAAGAACCGACAGATCAGCAA	90	90
1247	320	340	350
22437	AAAGAACCGACAGATCAGCAA	80	80
1247	330	350	360
22437	AAAGAACCGACAGATCAGCAA	70	70
1247	340	360	370
22437	AAAGAACCGACAGATCAGCAA	60	60
1247	350	370	380
22437	AAAGAACCGACAGATCAGCAA	50	50
1247	360	380	390
22437	AAAGAACCGACAGATCAGCAA	40	40
1247	370	390	400
22437	AAAGAACCGACAGATCAGCAA	30	30
1247	380	400	410
22437	AAAGAACCGACAGATCAGCAA	20	20
1247	390	410	420
22437	AAAGAACCGACAGATCAGCAA	10	10
1247	400	420	430
22437	AAAGAACCGACAGATCAGCAA	0	0
1247	410	430	450

Fig. 3B

Fig. 3C

Fig. 3D

22437	TACCCGACAGGCCAGTCTCATGGTCATGCCATAGCAGCCCCACGGCCCTGAGGAT	640	650	660	670	680	690
1247	TCACCGCACAGGCCAGTCTCATGGTCATGCCATAGCAGCCCCACGGCCCTGAGGAT	970	980	990	1000	1010	1020
22437	TCAGCCCCACAAATTCAACGCCCTTCCCAAACGCATCTCAGCACATCACGCCGAGCTAC	700	710	720	730	740	750
1247	TCAGCCCCACAAATTCAACGCCCTTCCCAAACGCATCTCAGCACATCACGCCGAGCTAC	1030	1040	1050	1060	1070	1080
22437	AACTACGGCCCAACCGGACAAACACTGGATCATGGCTACACGGCCCATGAAGCCC	760	770	780	790	800	810
1247	AACTACGGCCCAACCGGACAAACACTGGATCATGGCTACACGGCCCATGAAGCCC	1090	1100	1110	1120	1130	1140
22437	ATCCACATGGAATTCAACCAACATGGCTCAGCGGAAGCGCTTGCAAGACCCATGTCGGTG	820	830	840	850	860	870
1247	ATCCACATGGAATTCAACCAACATGGCTCAGCGGAAGCGCTTGCAAGACCCATGTCGGTG	1150	1160	1170	1180	1190	1200

Fig. 3E

		880	900	910	920	930
22437	GACGACTCCATGGAGACGGATTACAACATGGCTGGTTGAGACGGGGAGCTGGACAAACACG					
1247	GGACGACTCCATGGAGACGGATTACAACATGGCTGGTTGAGACGGGGAGCTGGACAAACACG					
		1210	1220	1230	1240	1250
						1260
		940	950	960	970	980
22437	TACATCGTATAACACCGCCGACCCACGGTTACCAACATCGGCCAGTTGGCCTGGTGAAGGG					
1247	TACATCGTATAACACCGCCGACCCACGGTTACCAACATCGGCCAGTTGGCCTGGTGAAGGG					
		1270	1280	1290	1300	1310
						1320
		1000	1010	1020	1030	1040
22437	AAATCCATGCCATATGAGTTGACATCAGGGTCCCGTTCTACGTGAGGGGGCCAAACGTG					
1247	AAATCCATGCCATATGAGTTGACATCAGGGTCCCGTTCTACGTGAGGGGGCCAAACGTG					
		1330	1340			
		1060	1070	1080	1090	1100
22437	GAAGCCGGCTGTCATGCCACATCGTCCTCAACATTGACCTGGCCCCACCATCCTG					
1247	GAAGCCGGCTGTCATGCCACATCGTCCTCAACATTGACCTGGCCCCACCATCCTG					
		1390	1400	1410	1420	1430
						1440

Fig. 3F

1247	GACATTGCAGGCCCTGGACATACTGGGGATATGGACGGAAATCCATCCTCAAGCTGCTG	1120	1130	1140	1150	1160	1170
22437	GACACGGAGGGCCGGTGAATCGGGTTCACTTGAAGAAGATGAGGGTCTGGGGGAC	1180	1190	1200	1210	1220	1230
22437	TCCCTCTTGGAGAGGGCAAGGCTACACAAGAGACAATGACAAGGGTGGACGCC	1240	1250	1260	1270	1280	1290
1247	TCCTTCTTGGTGGAGAGGGCAAGGCTACACAAGAGACAATGACAAGGGTGGACGCC	1570	1580	1590	1600	1610	1620
22437	CAGGAGGAAACTTTCTGCCCAAGTACAGCGTGTGAAGGGACCTGTGTCAGCGTGGCTGA	1300	1310	1320	1330	1340	1350
1247	CAGGAGGAAACTTTCTGCCCAAGTACAGCGTGTGAAGGGACCTGTGTCAGCGTGGCTGA	1630	1640	1650	1660	1670	168

Fig. 3G

22437	TACCAAGACGGCGTGTGAGCAGCTGGGACAGAAAGTGGCAGTGTGGAGGACGCCACGGGG	1360	1370	1380	1390	1400	1410
1247	TACCAAGACGGCGTGTGAGCAGCTGGGACAGAAAGTGGCAGTGTGGAGGACGCCACGGGG	1690	1700	1710	1720	1730	1740
22437	AAGCTGAAGCTGCATAAAGTGCAGGGCCCCATGGGGCTGGGGAGGGAGGGCCCTCTCC	1420	1430	1440	1450	1460	1470
1247	AAGCTGAAGCTGCATAAAGTGCAGGGCCCCATGGGGCTGGGGAGGGAGGGCCCTCTCC	1750	1760	1770	1780	1790	1800
22437	AACCTCGTGCCTCAAGTACTACCGGGCAGGGCAGGGCTGCACCTGTGACAGCGGGAC	1480	1490	1500	1510	1520	1530
1247	AACCTCGTGCCTCAAGTACTACCGGGCAGGGCAGGGCTGCACCTGTGACAGCGGGAC	1810	1820	1830	1840	1850	1860
22437	TACAAGCTCAGCCTGGGGACGGGGAAAAAAACTCTTCAAGAAGTACAAGGCCAGC	1540	1550	1560	1570	1580	1590
1247	TACAAGCTCAGCCTGGGGACGGGGAAAAAAACTCTTCAAGAAGTACAAGGCCAGC	1870	1880	1890	1900	1910	1920

Fig. 3H

22437	TATGTCCGGCAGTCGCTCCATCCGCTCAGTGGCCATCGAGGTGGACGGCAGGGTGTACAC	1600	1610	1620	1630	1640	1650
1247	TATGTCCGGCAGTCGCTCCATCCGCTCAGTGGCCATCGAGGTGGACGGCAGGGTGTACAC	1930	1940	1950	1960	1970	1980
22437	GTAGGGCCTGGGTGATGCCGCCAGCCCCGAAACCTCACCAAGGGGCACTGGCCAGGGGCC	1660	1670	1680	1690	1700	1710
1247	GTAGGGCCTGGGTGATGCCGCCAGCCCCGAAACCTCACCAAGGGGCACTGGCCAGGGGCC	1990	2000	2010	2020	2030	2040
22437	CCTGAGGACCAAGGATGACAAGGATGGTGGGACTTCAGTGGCACTGGCCCTTCCCGAC	1720	1730	1740	1750	1760	1770
1247	CCTGAGGACCAAGGATGACAAGGATGGTGGGACTTCAGTGGCACTGGCCCTTCCCGAC	2050	2060	2070	2080	2090	2100

Fig. 31

17 / 30

22437	TACTCAGCCCAACCCATTAAAGTGACACATGGCTACATCCCTAGAGAACGACACA <del>.....</del>	1780	1790	1800	1810	1820	1830
1247	TACTCAGCCCAACCCATTAAAGTGACACATGGCTACATCCCTAGAGAACGACACA <del>.....</del>	2110	2120	2130	2140	2150	2160
22437	GTCCAGTGTGACCTGGACCTGTACAAGTCCCTGCAGGCCCTGGAAAGGACCACAAAGCTGGAC <del>.....</del>	1840	1850	1860	1870	1880	1890
1247	GTCCAGTGTGACCTGGACCTGTACAAGTCCCTGCAGGCCCTGGAAAGGACCACAAAGCTGGAC <del>.....</del>	2170	2180	2190	2200	2210	2220
22437	ATCGACCACGAGATTGAAACCCCTGCAGAACAAATTAAAGAACCTGAGGGAAAGTCCGAGGT <del>.....</del>	1900	1910	1920	1930	1940	1950
1247	ATCGACCACGAGATTGAAACCCCTGCAGAACAAATTAAAGAACCTGAGGGAAAGTCCGAGGT <del>.....</del>	2230	2240	2250	2260	2270	2280
22437	CACCTGAAGAAAAAGGGCCAGAAGAATGTGACTGTCAACAAATCAGCTACCCACACCCAG <del>.....</del>	1960	1970	1980	1990	2000	2010
1247	CACCTGAAGAAAAAGGGCCAGAAGAATGTGACTGTCAACAAATCAGCTACCCACACCCAG <del>.....</del>	2290	2300	2310	2320	2330	2340

Fig. 3J

Fig. 3K

Fig. 3L

22437	CTGGGACTTAAGATGGAGGAAGCTATGAGCAAATACAGGCAGTTTCAGCGTTCAGCAAAGTGG	2500	2510	2520	2530	2540	2550
1247	CTGGGACTTAAGATGGAGGAAGCTATGAGCAAATACAGGCAGTTTCAGCGTTCAGCAAAGTGG	2830	2840	2850	2860	2870	2880
22437	CCAGAAATGAAGAGACCTTCTTCCAAATCACTGGGACAACACTGTGGAAAGGCTGGGAAGGT	2560	2570	2580	2590	2600	2610
1247	CCAGAAATGAAGAGACCTTCTTCCAAATCACTGGGACAACACTGTGGAAAGGCTGGGAAGGT	2890	2900	2910	2920	2930	2940
22437	TAA						
1247	TAAGAAACAAACAGAGGTGGACCTCCAAAAACATAGAGGCATCACCTGAC'TGCACAGGCAA	2950	2960	2970	2980	2990	3000
22437	TGAAAACCATGTTGGGTGATTCCAGGAGACCTGTGCTATTGCCAGGGCTGAGAAA	3010	3020	3030	3040	3050	3060

Fig. 3M

22437	-----			
1247	GCAAGCACGGCACTCTCAGTCACATGACAGATTCTGGAGGATAACCAGCAGGAGAGA 3070 3080 3090 3100 3110 3120			
-----				
22437	-----			
1247	TAACTTCAGGAAGTCCATTGCCCCCTGCTTTGGATTATAACCTCACCAGCTGC 3130 3140 3150 3160 3170 3180			
-----				
22437	-----			
1247	ACAAAATGCATTTCGTATCAAAAAGTCACCAACTAACCCCTCCCCAGAAGCTCACAAA 3190 3200 3210 3220 3230 3240			
-----				
22437	-----			
1247	GGAAAACGGAGAGGAGGGAGGAGGAGATTTCCTTGGAAATTCTCCAAAGGGCGAAAGT 3250 3260 3270 3280 3290 3300			

Fig. 3N

22437  
1247 CATTGGAAATTAAATCATAGGGAAAMGCAGTCCTGTTCTAAATCCTTATTCTTT  
3310 3320 3330 3340 3350 3360

22437  
1247 GGTTCACAAAGGAACAAAGCAGGACAGAGGCAACGTGGAGGGCTGAAAAAC  
3370 3380 3390 3400 3410 3420

22437  
1247 AGTGCAGAGACGTTGACAATGAGTCAGTAGCACAAGAGATGACATTACCTAGCACT  
3430 3440 3450 3460 3470 3480

22437  
1247 ATAAACCTGGTTGCCTCTGAAGAAACTGCCTTCATTGTATATGTGACTTACATG  
3490 3500 3510 3520 3530 3540

Fig. 30

22437  
1247 TAATCAACATGGGAACCTTTAGGGAACCTTAATAAGAAATCCCAATTTCAGGGAGTGGTG  
3550 3560 3570 3580 3590 3600

22437  
1247 GTGTCAATAACGCTCTGTGGCCAGTGTAAAAGAAAATCCCTCGCAGTTGGACATTC  
3610 3620 3630 3640 3650 3660

22437  
1247 TGTCCCTGTCCAGATAACCATTCTCCCTAGTTATTCTTGTATGTCAGAAACTGATGTT  
3670 3680 3690 3700 3710 3720

22437  
1247 TTTTTTAAGGTACTGAAAAGAAATGAAGTTGATGTATGTCAGTTTGATGAAACT  
3730 3740 3750 3760 3770 3780

Fig. 3P

22437 - - - - -  
1247 GTATTGTTAAATTGTAGTTAAGTATTGTCACTACAGTGTCAAAACCCAGCC  
3790 3800 3810 3820 3830 3840

22437 - - - - -  
1247 AATGACCGAGTTGGTATGAAGAACCTTGACATTTGTTAAAGGCCATTCTTCTTG  
3850 3860 3870 3880 3890 3900

22437 - - - - -  
1247 GGAGTTTTGGTGTCTGTCTTAAAGTATTCAAGATACTACCAGTCAACATCTTT  
3910 3920 3930 3940 3950 3960

22437 - - - - -  
1247 TTGGAAGAAATGCCTGGGTTAGAAGATTCTTAAAGGGGAGTAGATGGTTGAGA  
3970 3980 3990 4000 4010 4020

Fig. 3Q

22437 TTGACTAAAGTCTACCTCAAGGACTACAGGTAAAGTCTCATAGTATACCAAGCT  
1247 4030 4040 4050 4060 4070 4080

22437 TTGGTACTTCATTTTAAAAAGTTAAATCAATTGCAAAGAAATTGCCTTGGC AAC  
1247 4090 4100 4110 4120 4130 4140

22437 CCTTCTTGTGATCAGGTAGTCTAACCTGATAACAGTTGACAGATTCAACTATCA  
1247 4150 4160 4170 4180 4190 4200

22437 ATCACCAACCCATTCTCATTTAACAGATGACGGAGATAATCCCTAAAGCACCC  
1247 4210 4220 4230 4240 4250 4260

Fig. 3R

22437  
1247  
22437  
1247  
22437  
1247

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ACATTGTTCAATGCCCAACAGGCCAAGGCTCCCTAGCAACTCCCTAGTGGCGTTT  
4290 4280 4270  
4320 4310 4300

-----  
TTAACTTCTCAGAAACTGTTACCATTTGAATAAGGCTTCCTAACCTCCTTACCC  
4350 4340 4330  
4380 4370 4360

-----  
22437

-----  
TAACCCAACAGGGATT  
4390

Fig. 3S

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Fig. 4A

Fig. 4B

Fig. 4C

Fig. 4D